

# XP-002184686

AN - 2000-062305 [05]

AP - AU19990036289 19990507; [Based on WO9958716 ] ; WO1999JP02374 19990507

CPY - KYOW

DC - A21 A96 B04 D16 J04 S03

DS - AT BE CH CY DE DK EA ES FI FR GB GR IE IT LU MC NL PT SE

DR - 0708-S 0708-U 0800-S 0800-U

FS - CPI;EPI

IC - C12Q1/68 ; G01N33/50

IN - FUJIMOTO K; FUKUI M; HATAKEYAMA M; KAWAGUCHI H; NAKAMURA K

MC - A05-A01E A10-E A12-L04 A12-W11L B04-C03B B04-E02 B04-E03 B11-C08

B12-K04 D05-H09 D05-H10 D05-H12A D05-H12D1 J04-B01

- S03-E14H

M1 - [01]

- [02] G010 G100 H7 H715 H721 M210 M212 M240 M281 M320 M414 M423 M430  
M510 M520 M531 M540 M610 M782 M904 M905 M910 N102 P831 Q233; R00708-K  
R00708-Q R00708-M; 0708-S 0708-U

- [03] F012 F100 H7 H721 J0 J011 J2 J271 M210 M213 M232 M262 M281 M311  
M321 M342 M373 M391 M413 M423 M430 M510 M521 M530 M540 M782 M904 M905  
M910 N102 P831 Q233; 00012; R00800-K R00800-Q R00800-M; 0800-S 0800-U

M6 - [04] M905 Q233 R515 R521 R614 R627 R639

PA - (KYOW ) KYOWA MEDEX CO LTD

PN - AU3628999 A 19991129 DW200018 C12Q1/68 000pp

- WO9958716 A1 19991118 DW200005 C12Q1/68 Jpn 033pp

PR - JP19980125858 19980508

XA - C2000-017249

XIC - C12Q-001/68 ; G01N-033/50

XP - N2000-048801

AB - WO9958716 NOVELTY - A single-strand specific DNA fragment is detected and assayed by use of a DNA probe which is bound to a carrier, the carrier being a polymeric material having surface epoxy groups, and after bonding of the probe these epoxy groups are reacted with a mercaptan compound bearing polar groups.

- DETAILED DESCRIPTION - A new method for the detection and assay of a specific single-strand DNA fragment, consists of hybridization of the fragment (contained in a specimen) with a DNA probe which is bound (optionally via a spacer) to a carrier. The carrier is a polymeric material having epoxy groups on its surface, and after binding of the probe to the carrier these epoxy groups are reacted with a mercaptan compound bearing polar groups.

- INDEPENDENT CLAIMS are also included for the following:

- (1) carrier-bound DNA probes; and
- (2) kits for carrying out the method.

- USE - Sensitive and accurate detection and assay of specific DNA sequences in biological samples for diagnosis and investigation of disease, including detection of mutated gene sequences with disease significance.

- (Dwg.0/0)

CN - R00708-K R00708-Q R00708-M R00800-K R00800-Q R00800-M

DN - AU BG BR CA CN CZ HU ID IL IN JP KR MX NO NZ PL RO SG SI SK UA US VN ZA

DRL - 0708-S 0708-U 0800-S 0800-U

IW - DETECT ASSAY SPECIFIC SINGLE STRAND DNA SEQUENCE CARRY BOUND DNA PROBE

IKW - DETECT ASSAY SPECIFIC SINGLE STRAND DNA SEQUENCE CARRY BOUND DNA PROBE  
INW - FUJIMOTO K; FUKUI M; HATAKEYAMA M; KAWAGUCHI H; NAKAMURA K

NC - 043

OPD - 1998-05-08

ORD - 1999-11-18

PAW - (KYOW ) KYOWA MEDEX CO LTD

RRL - 00012

TI - Detection and assay of specific single-strand DNA sequences using  
carrier-bound DNA probe

A01 - [001] 018 ; R00708 G0102 G0022 D01 D02 D12 D10 D19 D18 D31 D51 D53  
D58 D76 D88 ; R00800 G0384 G0339 G0260 G0022 D01 D11 D10 D12 D23 D22  
D26 D31 D42 D51 D53 D58 D63 D73 D87 F47 F41 F89 ; M9999 M2835 ;  
L9999 L2391 ; L9999 L2835 ; L9999 L2744 L2733 ; M9999 M2324 ;  
L9999 L2324 ; P0464-R D01 D22 D42 F47 ; H0022 H0011 ; P1741 ; P0088  
- [002] 018 ; ND01 ; Q9999 Q7874 ; Q9999 Q8082 ; Q9999 Q7794-R  
- [003] 018 ; R00201 G2017 D01 D11 D10 D50 D82 F04 F27 F26 ; H0226  
- [004] 018 ; R08166 D01 D11 D10 D50 D61 D88 F17 F13 F16 CI 7A ; C999  
C088-R C000 ; C999 C293